

DC OFFSET CANCELLATION IN A DIRECT  
CONVERSION RECEIVER CONFIGURED FOR  
RECEIVING AN OFDM SIGNAL

ABSTRACT OF THE DISCLOSURE

An OFDM receiver has a DC offset estimator configured for determining a DC offset, in I and Q components of a received OFDM signal having been output by an analog front end, based on filtering prescribed subcarrier components from a preamble segment of the I and Q components. The OFDM receiver removes the determined DC offset from the I and Q components, resulting in  
5    respective corrected I and Q components having minimal DC offset.